

Fig. 1A

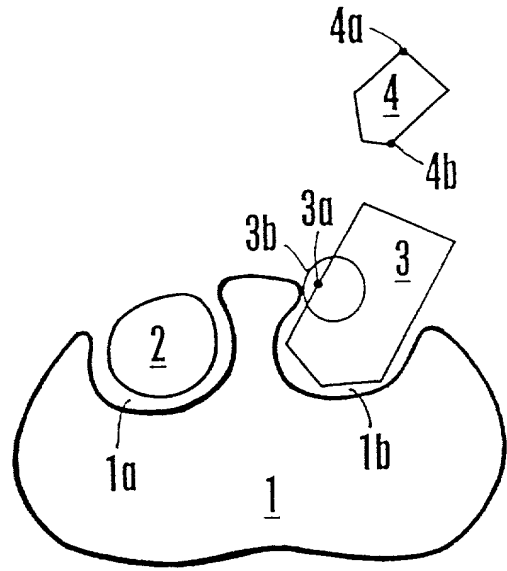


Fig. 1B

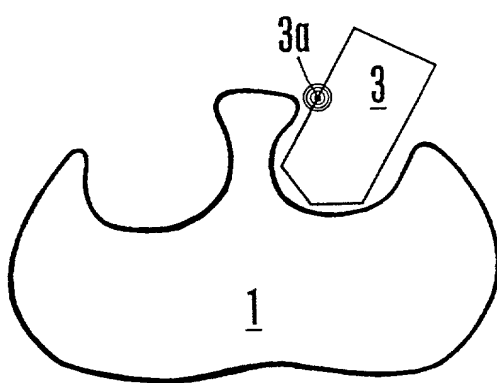


Fig. 2A

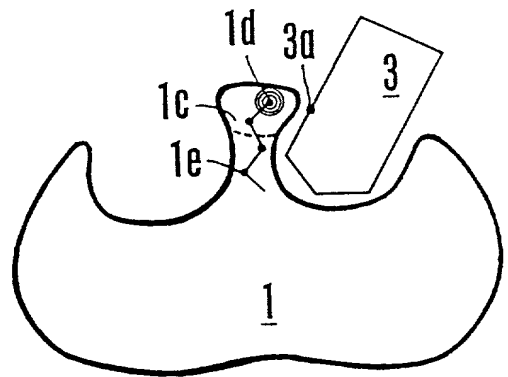


Fig. 2B

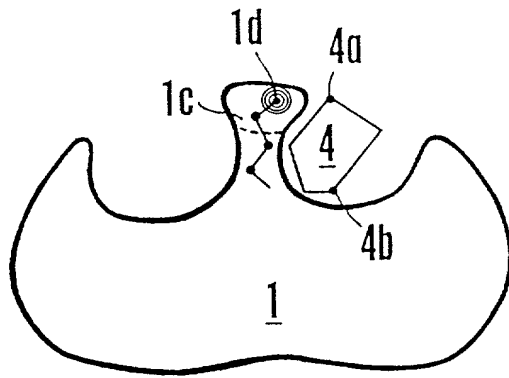


Fig. 3A

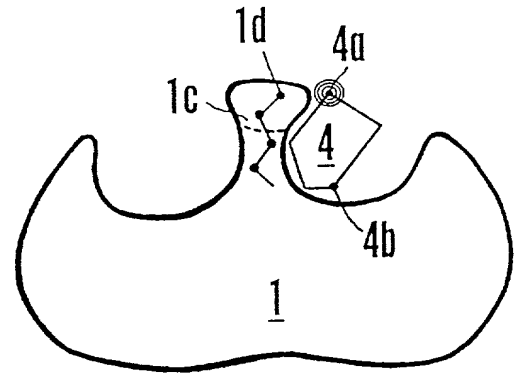


Fig. 3B

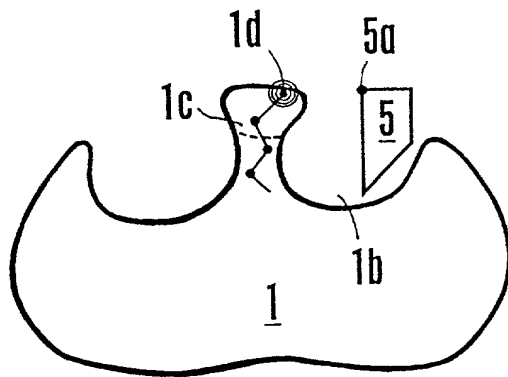


Fig. 3C

Fig. 4A

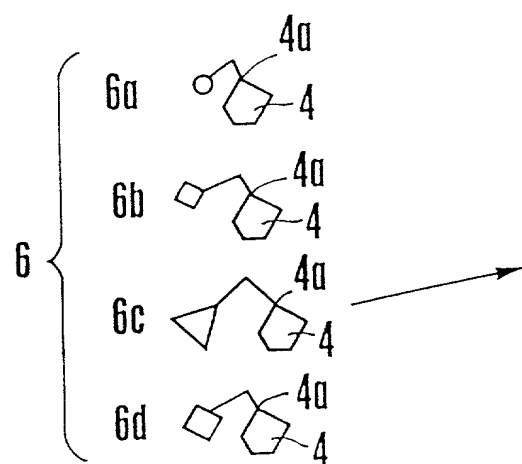
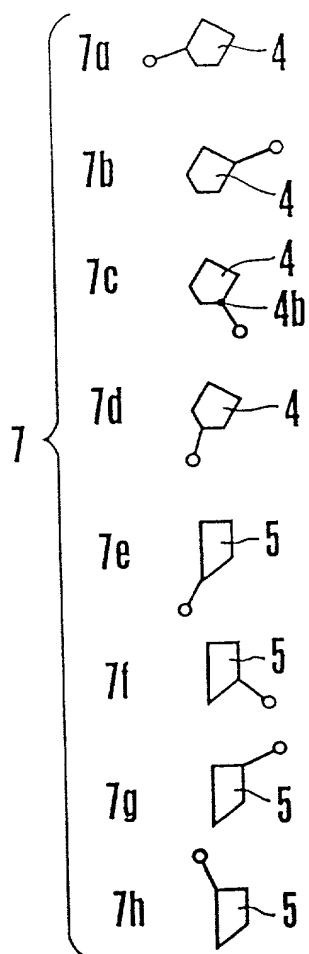
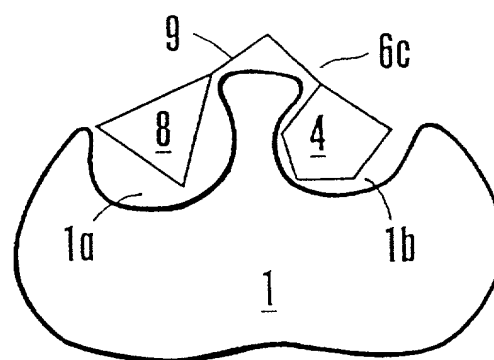


Fig. 4B



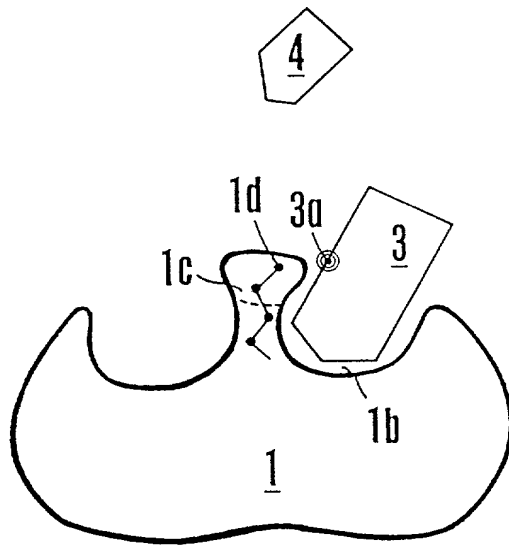


Fig. 5A

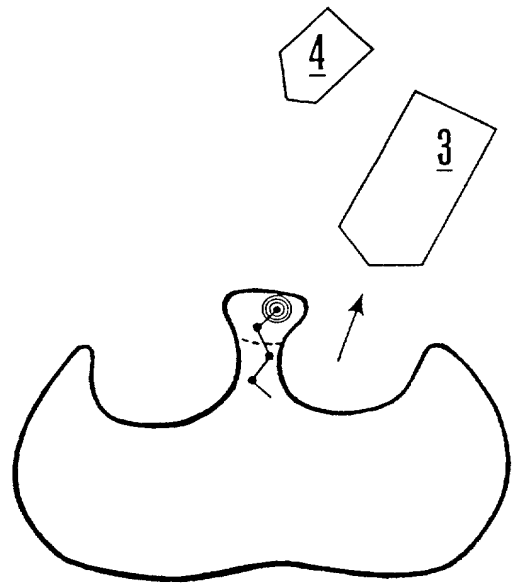


Fig. 5B

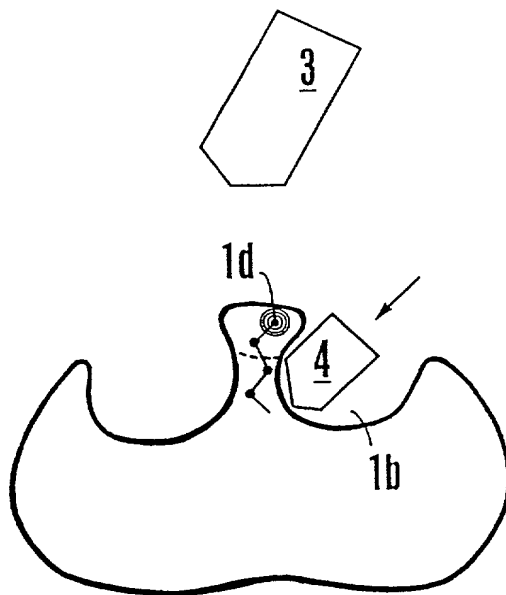


Fig. 5C

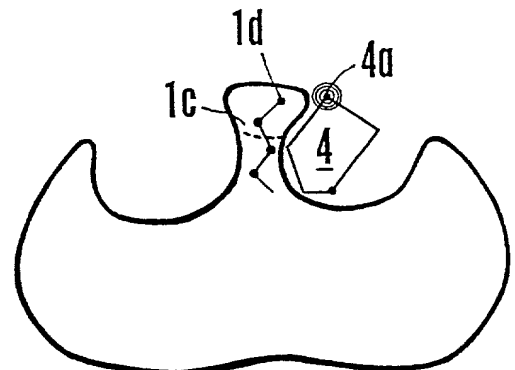
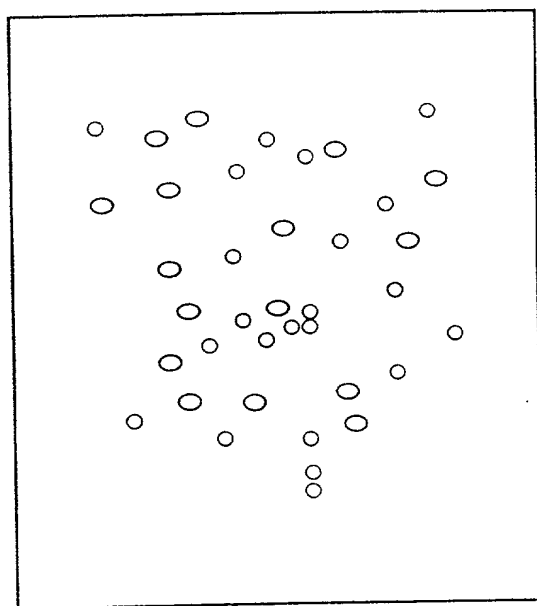


Fig. 5D

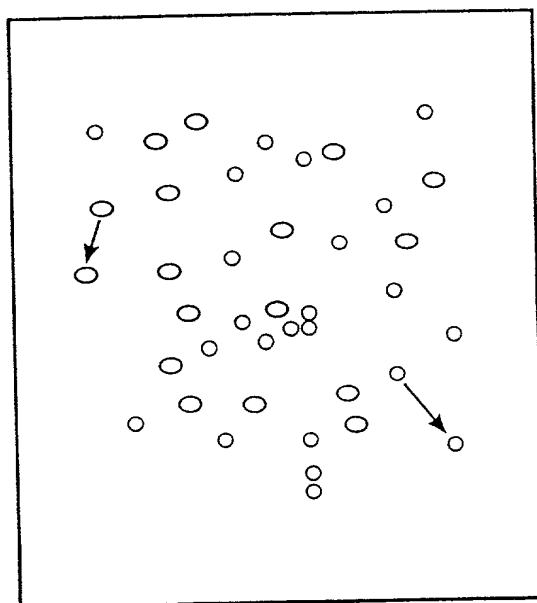
Fig. 6A



$^{15}\text{N}$  Chemical Shift

$^1\text{H}$  Chemical Shift

Fig. 6B



$^{15}\text{N}$  Chemical Shift

$^1\text{H}$  Chemical Shift

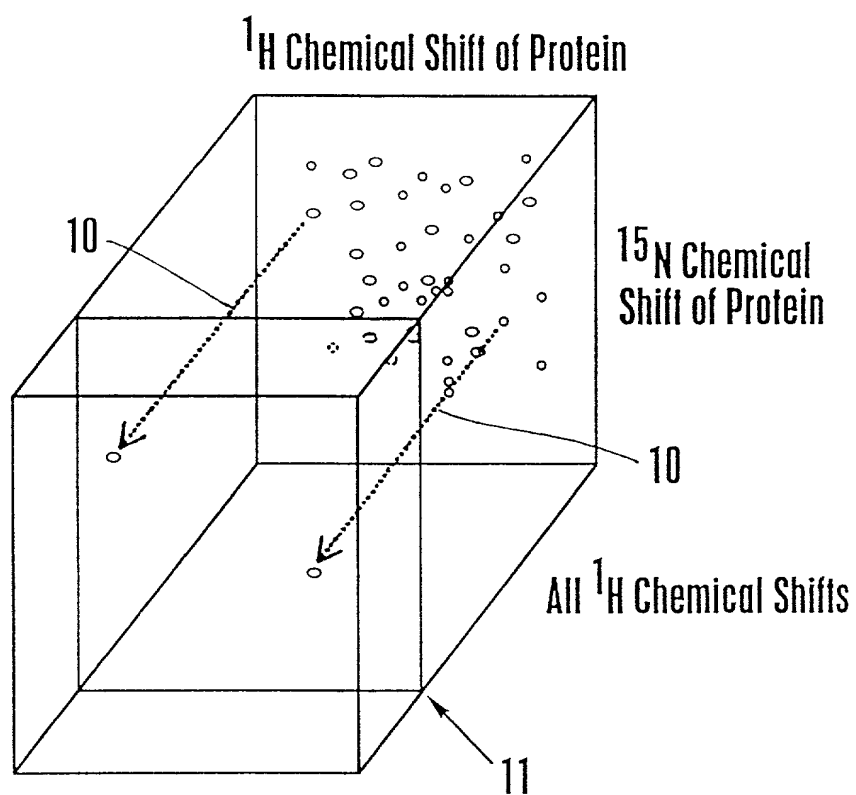


Fig. 7A

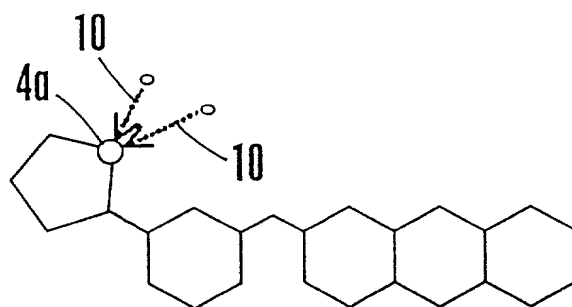


Fig. 7B

Figure 8a

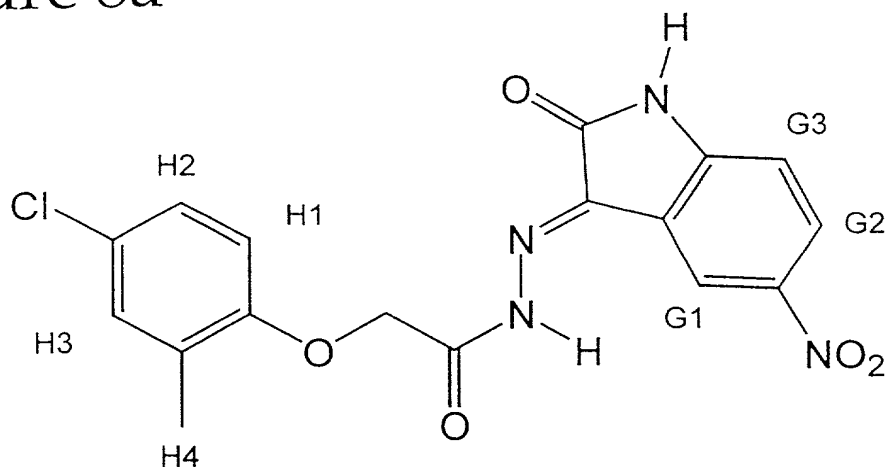


Figure 8b

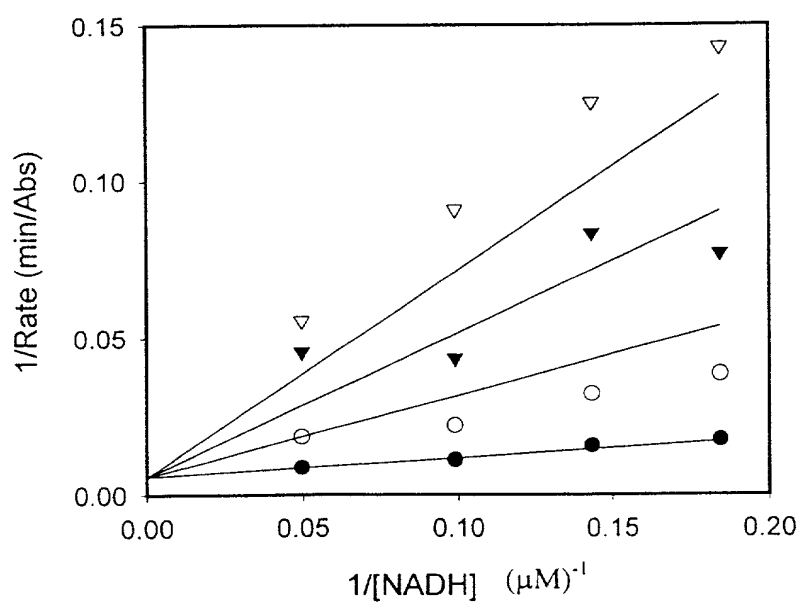


Figure 9a

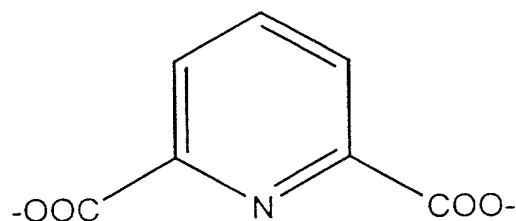


Figure 9b

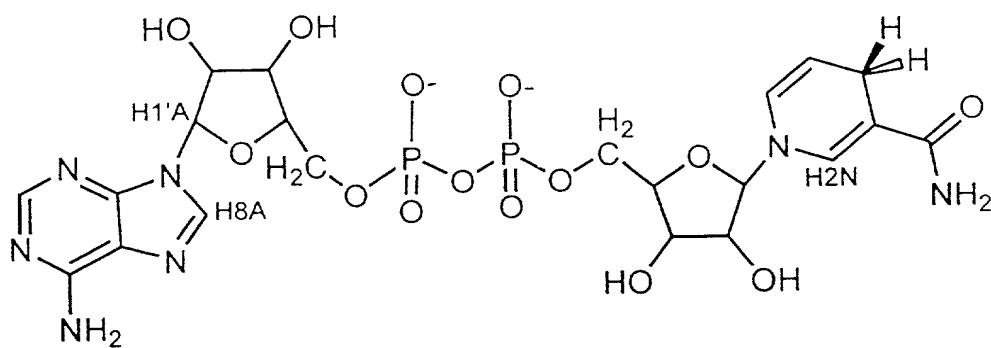


Figure 9c

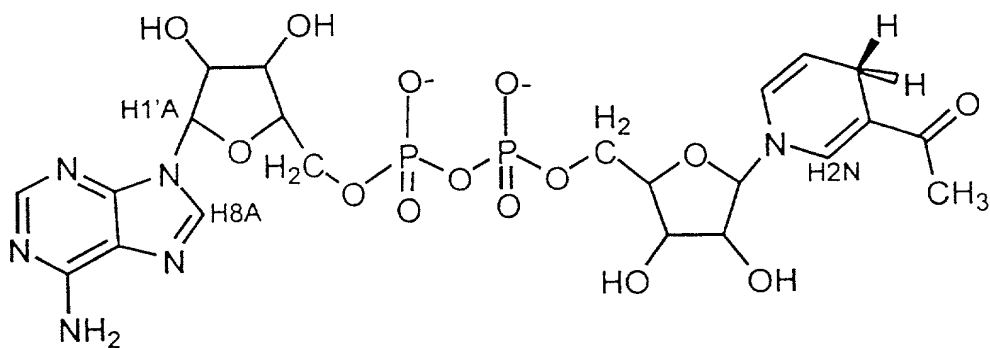


Figure 10a

Figure 10b

Figure 10c

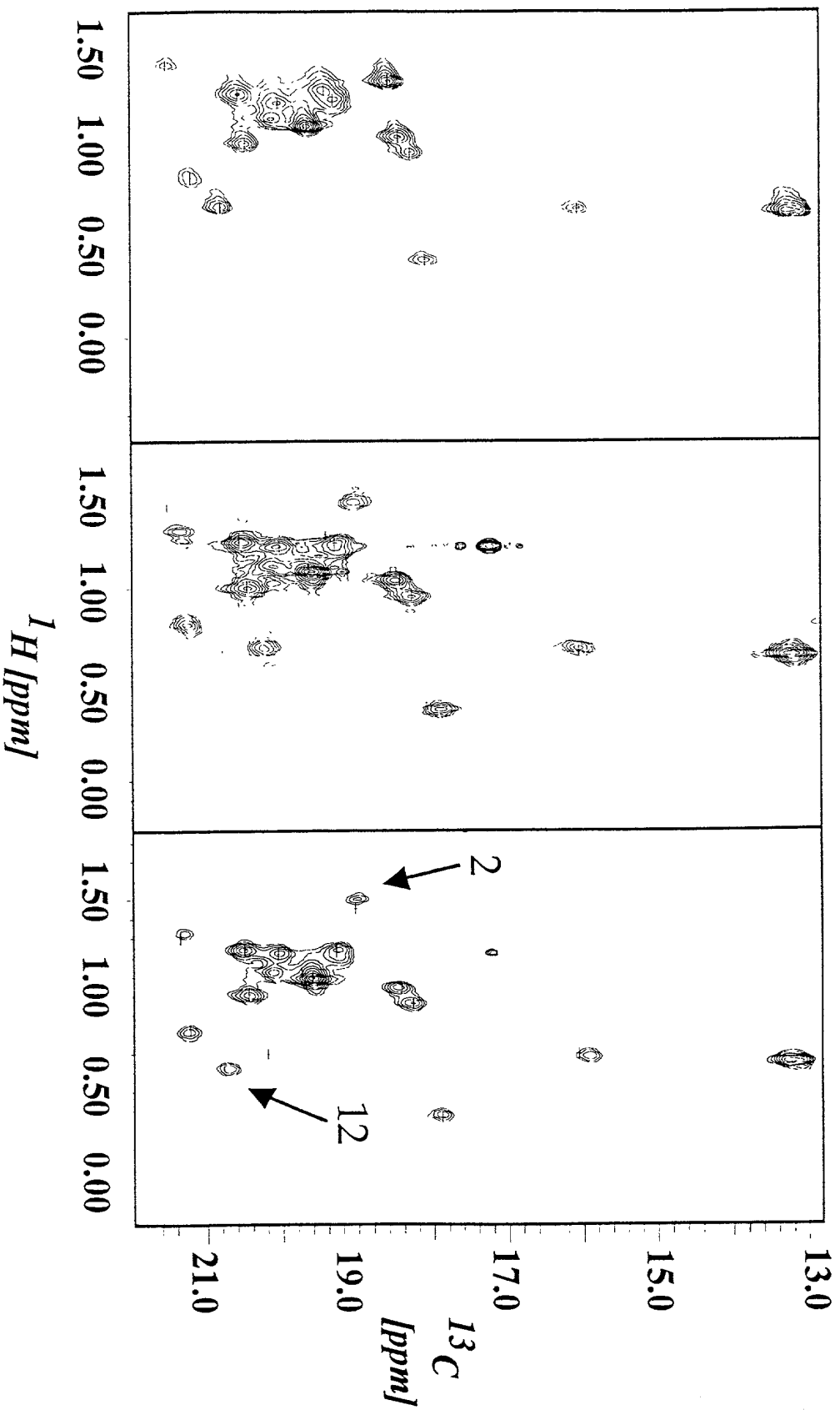


Figure 11

Free DHPR Thr $\delta$ (ppm)		DHPR + NADH Thr $\delta$ (ppm)		DHPR + AcNADH Thr $\delta$ (ppm)		$\Delta\delta_{av}^*$ NADH	$\Delta\delta_{av}^*$ AcNADH	$d\Delta\delta^{**}$	Peak #
$^1\text{H}$	$^{13}\text{C}$	$^1\text{H}$	$^{13}\text{C}$	$^1\text{H}$	$^{13}\text{C}$				
1.41	21.50	1.31	21.46	1.31	21.50	0.0591	0.0589	0.0002	1
1.33	18.57	1.45	19.04	1.50	19.01	0.0910	0.1136	-0.0226	2
1.28	19.41	1.11	19.74	1.11	19.74	0.1090	0.1080	0.0010	3
1.26	20.54	1.24	20.50	1.23	20.51	0.0128	0.0181	-0.0053	4
1.23	19.29	1.23	19.29	1.23	19.27	0.0000	0.0024	-0.0024	5
1.21	20.01	1.22	20.05	1.22	20.02	0.0077	0.0060	0.0017	6
1.10	19.64	1.10	19.61	1.09	19.58	0.0037	0.0094	-0.0057	7
1.04	18.43	1.04	18.43	1.04	18.43	0.0000	0.0000	0.0000	8
1.01	20.44	1.01	20.44	1.00	20.44	0.0000	0.0059	-0.0059	9
0.96	18.28	0.96	18.28	0.96	18.28	0.0000	0.0000	0.0000	10
0.83	21.17	0.83	21.22	0.81	21.23	0.0061	0.0139	-0.0078	11
0.68	20.78	0.70	20.19	0.62	20.70	0.0729	0.0367	0.0362	12
0.67	16.05	0.70	16.07	0.68	15.89	0.0178	0.0203	-0.0025	13
0.40	18.08	0.36	17.89	0.37	17.89	0.0331	0.0291	0.0040	14

$$*\Delta\delta_{av} = \text{SQRT}\{[(\Delta\delta\text{H}^2/1.44) + (\Delta\delta\text{C}^2/33.7)]/2\}$$

$$**d\Delta\delta_{av} = \Delta\delta_{av}(\text{NADH}) - \Delta\delta_{av}(\text{AcNADH})$$

Figure 12

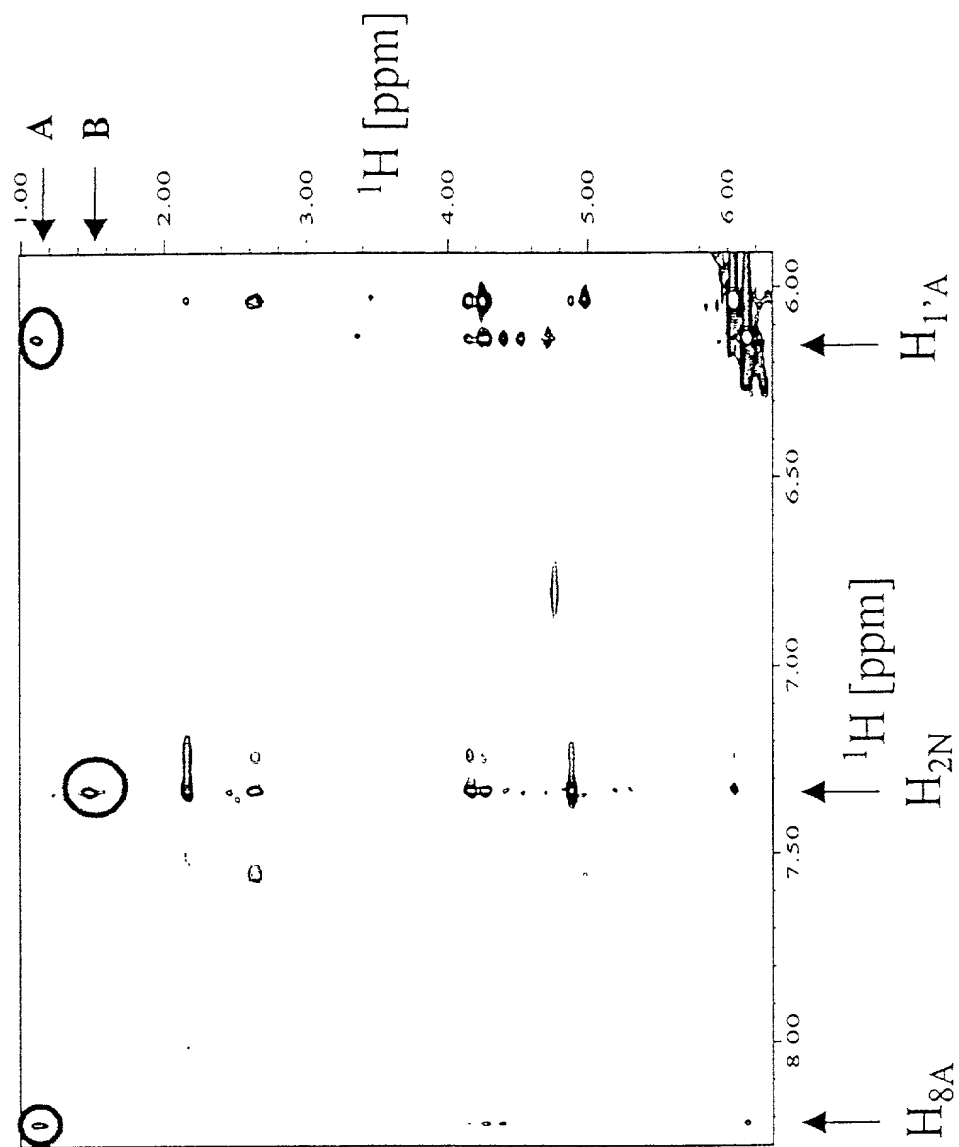


Figure 13

